

## Red5-EDGE-ROOM

### Description

The Red5-EDGE-ROOM is a fully programmable native BACnet building controller. As a primary integration engine of the Red5 system, the Red5-EDGE-ROOM contains memory storage and external communication ports, as well as the control logic for the expansion modules. The Red5-EDGE-ROOM can support up to 4 expansion modules.

The Red5-EDGE-ROOM supports multiple communication methods, including BACnet/IP, BACnet over Ethernet, BACnet MS/TP, and Delta LINKnet.



### Application

The Red5 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The Red5 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

The Red5-EDGE-ROOM single room controller is ideal for cost-sensitive applications where core features and single serial port connectivity are required.

### Features

- Fully programmable
- BACnet/IP, BACnet over Ethernet and BACnet MS/TP communication ports
- Dual Ethernet ports
- Modular, expandable I/O. Modular design provides flexibility, ease of service and reduces cost of future upgrades.
- Fault detection and diagnostics
- Firmware upgrade and database load/ save over the network
- LED indicators for device status, NET and Ethernet ports
- USB expansion ports
- DIN rail mountable (EN 50022-35x7.5)

### Specifications

BACnet Device Profile BACnet Building Controller (B-BC)

**Device Addressing** Software addressed

**Connectors** Removable screw-type terminal connectors

Wiring Class Class 2 / SELV

**Power** 24 VDC, 2 W typical (7 W max) 24 VDC, 100 W max output fully loaded

**Power Out** 75 W max

#### Technology

Arm® Cortex®-A8 32-bit 600 MHz RISC CPU 256 MB DDR3L RAM 4 GB eMMC flash memory Real-time clock Supercapacitor power backup for RTC and CPU

**Communication Ports** 2 Ethernet (10/100-Base T)

BACnet/IP, BACnet over Ethernet, BACnet/SC

1 RS-485 port supporting up to 4 devices with the following protocols: BACnet MS/TP up to 76800 bps Delta LINKnet up to 76800 bps Modbus RTU up to 115200 bps

1 CAN bus port supporting up to 2 03-HUB devices

2 USB 2.0 ports



# **Red5** Series

## Red5-EDGE-ROOM



Specifications (Continued)
Ambient Rating

-30°C to 55°C (-22°F to 131°F) 10% to 95% RH (non-condensing)

**Dimensions** 108 × 111 × 58 mm (4.25 × 4.37 × 2.28 in.)

**Weight** 193 g (0.425 lb)

Enclosure Protection Rating IP20

Compliance CE FCC

Listings C-UL Listed UL 916 Listed

Updated September 2023

Order the Red5-EDGE-ROOM with one or more modules or hubs:

### **Base Unit**

**Red5-EDGE-ROOM** Base unit: 2 network ports, 2 Ethernet ports, 1 power output, Modbus RTU

### Modules and Hubs

Red5-MODULE-4F4xP	I/O module: 4 universal I/O, 4 FET binary outputs
Red5-MODULE-8xP	I/O module: 8 universal I/O
Red5-MODULE-1D00R	Access module, single door support
Red5-MODULE-DALI	DALI lighting module: DALI interface, 100 mA power output
Red5-MODULE-PoE	Power over Ethernet module (IEEE 802.3at)
Red5-MODULE-SMI	SMI module for motorized blinds: SMI interface, 30 mA power output
03-HUB	Sensor hub (temp, hum, light, motion, Bluetooth, LED ring, microphone, speaker)
03-HUB-En868	03-HUB with EnOcean 868 MHz
03-HUB-En902	03-HUB with EnOcean 902 MHz

Subject to change without notice.



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## Red5-EDGE-ROOM

### **Power Supplies**

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24 V 30 W Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24 V 60 W Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24 V 100 W Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24 V 30 W Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24 V 50 W Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24 V 100 W Class B EMC
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